

Carrier for CoreExpress® V2.1 Modules

Test and evaluation board



Features



Supports CoreExpress Modules conforming to version 2.1 of the standard

VGA, DVI, and LVDS, with backlight

SATA, MicroSD slot

CAN Bus

Gigabit LAN, USB2.0

3x PCI Express x1 lanes, MiniPCI-Express card slot

Specifications

Board Format	215mm x 130mm (8.645" x 5.118")
Processor	Depending on the used module: - Intel® Atom™ E6xx (CoreExpress-ECO2) - Marvell Armada™-310 (CoreExpress-A310)
VGA	Yes
DVI	Yes
LVDS	Single channel 18/24 bit LVDS
Backlight	- 5V or 12V supply - Control signal
Audio	- HD audio - S/PDIF (Audio is not supported by the CoreExpress-A310)
USB	7 x USB2.0 host - 4 on front panel - 2 on uDOC socket - 1 on MiniPCI slot 1 x USB Device
Gigabit LAN	1 port, via RGMII GBit PHY
CAN bus	Available on DSUB9 male connector
Serial	2x RS232
PS2	Keyboard, mouse
PCI Express Bus	3 x PCIe x1 lanes
μSD	Card slot on board

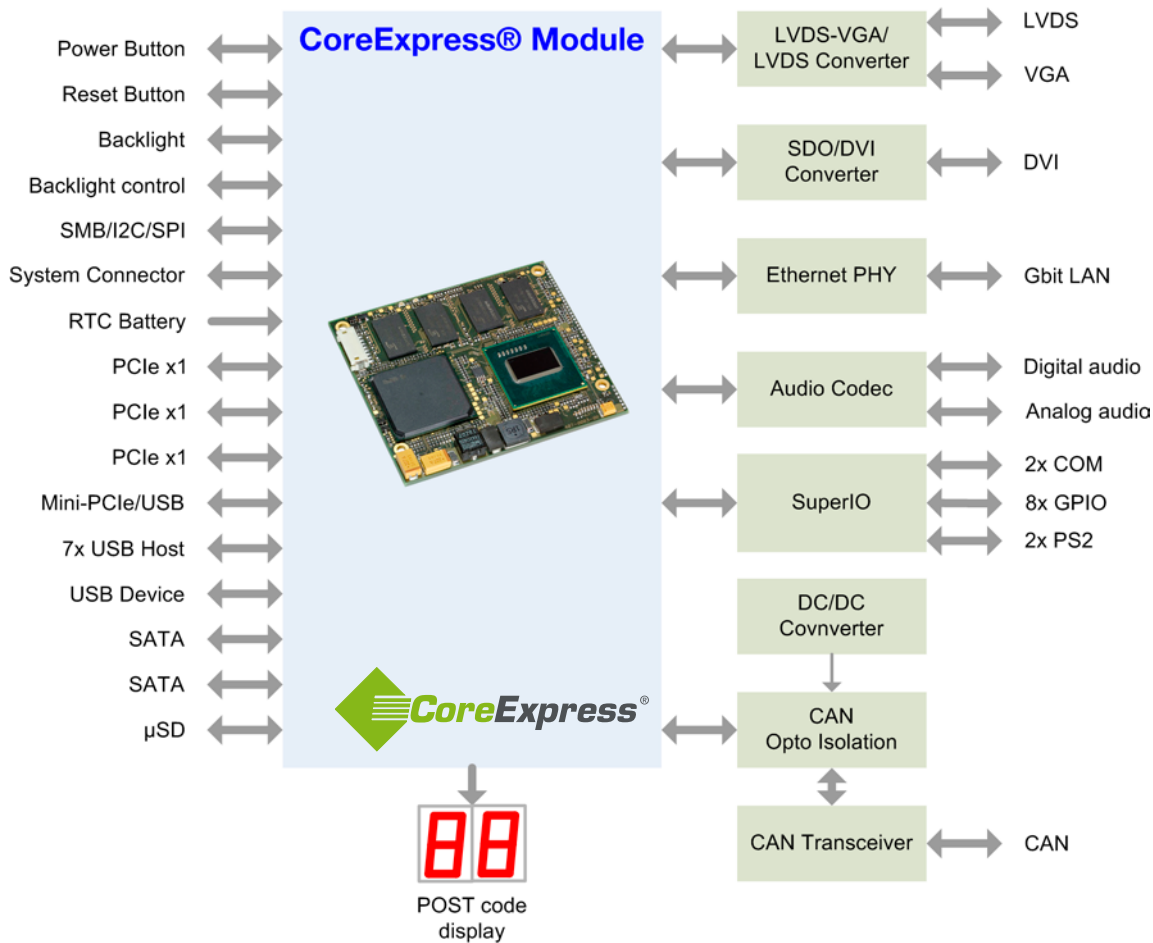
uDOC	IDC header is provided
SATA	2 SATA ports
MiniCard	Slot available, including USB host
GPIO	10 free programmable input/output signals available on IDC header
SM Bus	Available on IDC header
LPC	Available (not supported by CoreExpress-A310)
SPI	Available on IDC header
System Connector	Various signals: BIOS disable, VBAT, Wake Button, Reset Button, Power Button
Debug aids	POST code display
Power Supply	ATX compatible
Power Consumption	Depending on the CoreExpress module used
Operating temperature	0°C...+50°C
Board Support Packages	For CoreExpress-ECO2: - Windows® Embedded Standard 7 - Windows® CE 6.0 R3 - Ubuntu Linux 11.04 For CoreExpress-A310: - Debian 6.0

Note: Some of the features depend on the capabilities of the used CoreExpress module and may not be available for your application. Please consult the Technical Manual of the specific CoreExpress module for supported functions.

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Block Diagram



The board is included in these development kits:

for CoreExpress-ECO2 with 1.0GHz / 1 GB RAM	order no. 708-0012-10
for CoreExpress-ECO2 with 1.6GHz / 2 GB RAM	order no. 708-0012-11
for CoreExpress-A310 with 1 GHz / 512MB RAM	order no. 708-0011-10
for other configurations please contact sales@lippertembedded.com	

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